CLAIMS

What is claimed is:

1. A multi-band antenna system, comprising:

a dipole antenna;

transmission means having a first end coupled to the dipole antenna; and a reactive circuit coupled between a second end of the transmission means and a PC Card wireless modem,

wherein the reactive circuit is configured to operate as a trap for received signals having frequencies within a first frequency band.

- 2. The multi-band antenna system of Claim 1 wherein the dipole is configured to receive signals having frequencies within a second frequency band.
- 3. The multi-band antenna system of Claim 2 wherein the first frequency band corresponds to the CDMA 0.86 GHz band and the second frequency band corresponds to the PCS 1.92 GHz band.
- 4. The multi-band antenna system of Claim 1 wherein a ground plane of a printed circuit board of the PC Card wireless modem and/or a conductive housing of the PC Card wireless modem functions as a counterpoise for the antenna apparatus..

- 5. The multi-band antenna system of Claim 4 wherein combined lengths of a pole of the dipole antenna and a portion of the transmission means operate as a monopole antenna for received signals having frequencies within the first frequency band.
- 6. The multi-band antenna system of Claim 1, further comprising a matching circuit coupled between first and second poles of the dipole antenna.
- 7. The multi-band antenna system of Claim 6 wherein said matching circuit is further configured to operate as a balun.
- 8. The multi-band antenna system of Claim 6 wherein the matching circuit, the dipole, and a portion of the transmission means are formed on a first printed circuit board.
- 9. The multi-band antenna system of Claim 1 wherein the reactive circuit is formed on a printed circuit board.
- 10. The multi-band antenna system of Claim 8 wherein the reactive circuit is formed on a second printed circuit board.
- 11. The multi-band antenna system of Claim 1, further comprising a diversity dipole.

- 12. The multi-band antenna system of Claim 9, further comprising a diversity dipole.
- 13. The multi-band antenna system of Claim 12 wherein the diversity dipole is formed on the printed circuit board.
- 14. The multi-band antenna system of Claim 10, further comprising a diversity dipole.
- 15. The multi-band antenna system of Claim 14 wherein the diversity dipole is formed on the second printed circuit board.
- 16. A multi-band antenna system for a portable communications device, comprising:

a dipole antenna;

transmission means having a first end coupled to the dipole antenna; and a reactive circuit coupled between a second end of the transmission means and the portable communications device,

wherein the reactive circuit is configured to operate as a trap for received signals having frequencies within a first frequency band.

- 17. The multi-band antenna system of Claim 16 wherein combined lengths of a pole of the dipole antenna, and a portion of the transmission means form a whip antenna capable of receiving signals having frequencies within the first frequency band.
- 18. The multi-band antenna system of Claim 16 wherein the dipole antenna is configured to receive signals having frequencies within a second frequency band.
- 19. The multi-band antenna system of Claim 18 wherein the first frequency band corresponds to the CDMA 0.86 GHz band and the second frequency band corresponds to the PCS 1.92 GHz band.
- 20. The multi-band antenna system of Claim 16 wherein the portable communications device comprises a PC Card wireless modem.
- 21. The multi-band antenna system of Claim 20 wherein a ground plane of a printed circuit board of the PC Card wireless modem and/or a conductive housing of the PC Card wireless modem functions as a counterpoise for the antenna apparatus.
- 22. The multi-band antenna system of Claim 16, further comprising a matching circuit coupled between first and second poles of the dipole antenna.
- 23. The multi-band antenna system of Claim 22 wherein said matching circuit is further configured to operate as a balun.

- 24. The multi-band antenna system of Claim 22 wherein the matching circuit, the dipole, and a portion of the transmission means are formed on a first printed circuit board.
- 25. The multi-band antenna system of Claim 16 wherein the reactive circuit is formed on a printed circuit board.
- 26. The multi-band antenna system of Claim 24 wherein the reactive circuit is formed on a second printed circuit board.
- 27. The multi-band antenna system of Claim 16, further comprising a diversity dipole.
- 28. The multi-band antenna system of Claim 25, further comprising a diversity dipole.
- 29. The multi-band antenna system of Claim 28 wherein the diversity dipole is formed on the printed circuit board.
- 30. The multi-band antenna system of Claim 26, further comprising a diversity dipole.

31. The multi-band antenna system of Claim 30 wherein the diversity dipole is formed on the second printed circuit board.